

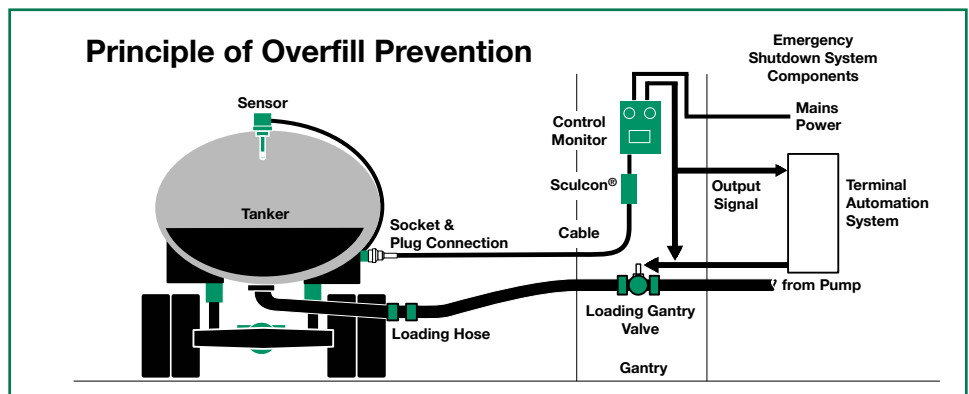


Scully five-wire optic sensors are purpose-built for liquid petroleum product overfill prevention and point level detection.

The five-wire optic sensor is a critical component in Scully's unique and patented Dynacheck® circuit design.

Scully offers a 5-year warranty on these models of overfill prevention sensors for fixed tank trailer and storage tank applications. Scully sensors have the longest running safety record in the industry and are manufactured in Scully's U.S. factory, which prides itself on its strict quality and safety standards.

\*FIT = Failure In Time ( $1 \times 10^9$  failures per hour)

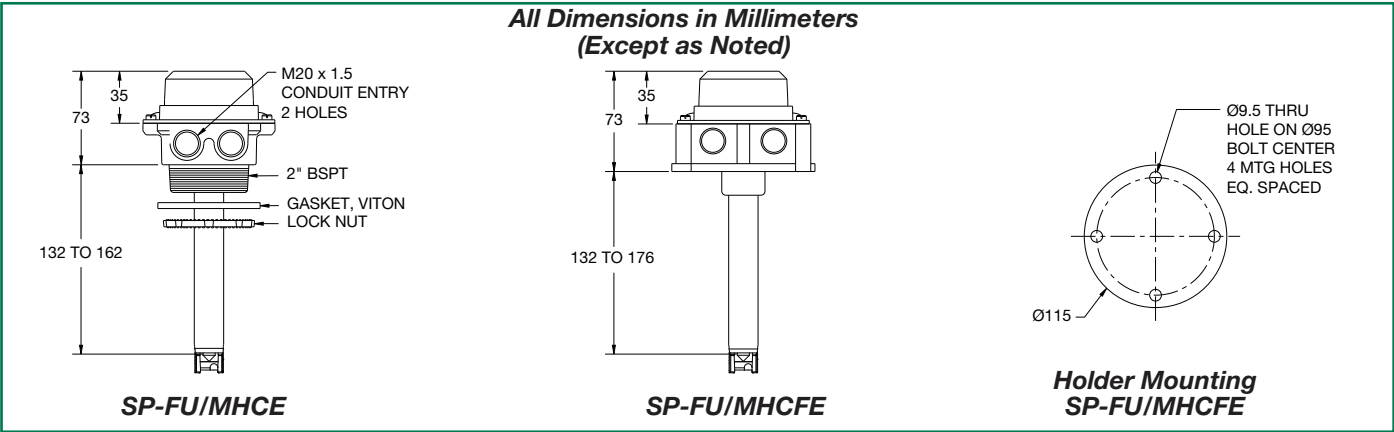


- Maximum safety with Dynacheck®—Automatic and continuous self-checking circuitry when used with Scully electronic rack and vehicle onboard monitoring systems.
- Scully's field-proven electro-optics technology.
- Wide temperature range.
- Adjustable Sensing Level.
- Instant-On™—Instant permissive signal. No warmup time required.
- Quick purging of liquid—"fast" repermit as product level drops below the sensing point.
- ATEX, IECEx and UKEX approved.





# Liquid Level Sensor for Road Tanker Overfill Prevention



### TECHNICAL SPECIFICATIONS

**Operating Temp. Range:** -40°C to +60°C  
(-40°F to +140°F).

**Petroleum Product Range:** Petroleum Blends through #2 Oil.

**Exposed Materials:** Aluminum, Zinc, Borosilicate (Pyrex®) glass, epoxy, conductive nylon and Viton® seals.

**Level Repeatability:** ±1 mm (±1/16").

**Electrical Leads:** 45cm (18") long.  
0.33 mm<sup>2</sup> (#22 AWG).

**Cable Entry:** Two holes, M20 x 1.5 threads.

**Detection Level and Size:** The detection level is adjustable, refer to sensor outline drawing above, shown for 175mm shaft length.

**Approvals:**  
UL21ATEX2635X  
IECEXUL21.0113X  
UL22UKEX2272X  
II 1 G Ex ia IIB T5 Ga (-40°C ≤ Ta ≤ +60°C)



### ORDERING INFORMATION

Model	Description	Shaft Length	Part Number	Part Number for EN13922 Wire Colours
SP-FU/MHCE(SC)	Five-Wire Optic Sensor, 2" BSPT holder, 35mm Short Cap	175mm	09031L1	09031L1E
		300mm		09038L1E
		375mm		09048L1E
		457mm		09175L1E

### REPLACEMENT PARTS

Model	Description	Shaft Length	Part Number	Part Number for EN13922 Wire Colours
SP-FU	Five-Wire Optic Sensor, (without holder)	175mm		09036L1E
		300mm	09039L1	09039L1E
		375mm	09049L1	09049L1E
		457mm		09176L1E
SP-MHCE(SC)	2" BSPT Threaded Holder Only		08714	
SP-MHCFE(SC)	Flanged Holder Only		08284	

Copyright © 2025 Scully Signal Company. Dynacheck, Dynamic Self-Checking, Dynamic Self-Testing, Faylsafe, IntelliCheck, Intellitrol are registered trademarks of Scully Signal Company. All Rights Reserved. Specifications are subject to change without notice.

Viton® is a registered trademark of DuPont. Pyrex® is a registered trademark of Corning.

02-4A  
December 2025